



The Minuteman Repeater Association

The Minuteman



Volume 43, Number 4

March 2014

Membership Meeting ~ Wednesday, March 19 ~ 7 PM

A Peek Into the World of Nanotechnology

Paul Anzalone, N1PA

Location: Tatnuck Bookseller, Westborough

This talk will discuss technology of yesterday, today and where we're headed in the future. We'll look at what kind of equipment allows us to look at the atomic scale and why it's so important to be there.

Paul is the Director of Research and Development at a New Hampshire company, specifically characterizing Carbon Nanotube materials. Paul has worked in Nanotechnology for the past 28 years and finds it fascinating to see where technology will bring us in the future.

Talk-in: 147.27

Tatnuck Bookseller

18 Lyman Street (Lyman at Route 9) Westborough, MA 01581

From the North/South/East: Take I-495 to the route 9 interchange in Westborough. Head West on route 9 to the Lyman street traffic light. Take a left onto Lyman street. Tatnuck Bookseller will be about 1/2 mile down Lyman on your right.

From the West: Take route 9 east to the Lyman street traffic light in Westborough. Turn right onto Lyman Street. Tatnuck Bookseller will be about 1/2 mile down Lyman on your right.

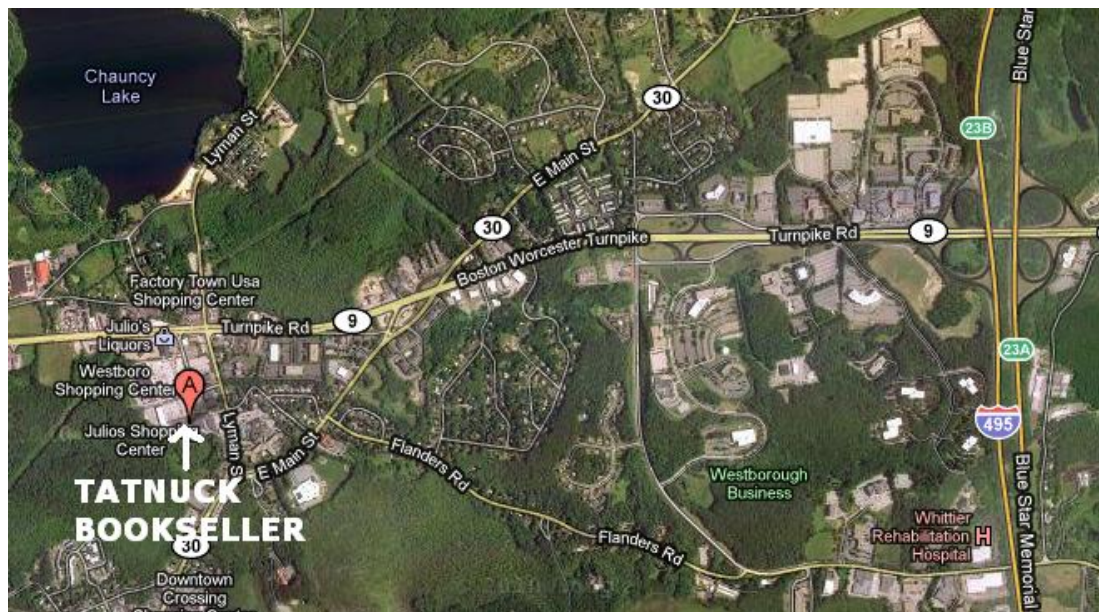


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About the Minuteman Repeater Association

The Minuteman Repeater Association (MMRA) is dedicated to Amateur Radio and public service. The MMRA maintains a large system of repeaters in Eastern Massachusetts.

The MMRA meets (usually) on the 3rd Wednesday of each month from September to June. Meeting times, locations, and talk-in frequency vary and are announced in this newsletter and on weekly nets. Meetings are open to all interested parties. Guest speakers and programs of general interest occur in September, November, January, March, and May. The intervening meetings are also open to all members and are for general business.

The Minuteman newsletter is Emailed one week before each general interest meeting. Members are encouraged to submit articles which can be sent to the editor at newsletter@mmra.org. The deadline for articles is the last Friday of the month preceding the meeting.

Each Tuesday evening at 8PM the MMRA links most of the repeaters for an open net. The topic is "Technical Information and Other Stuff". Join us!

Membership in the MMRA is open to all radio amateurs. Annual dues are \$25 per individual or \$35 per family. See our website for details.

Email to the club leadership should be sent to contact@mmra.org. The MMRA maintains a web site at: <http://www.mmra.org/>

An email distribution list for club members named "MMRA" is at: www.yahogroups.com/.

You can also follow us on twitter @mmraham and like us on Facebook: <https://www.facebook.com/mmraham>.

No part of this newsletter can be copied or posted elsewhere without prior approval from the club. Your cooperation in this matter is appreciated.

MMRA QRM Policy

MMRA members and all other operators are strongly encouraged to report repeater activity that does not abide by Part 97 rules or accepted amateur radio practice to the board of directors at contact@mmra.org or via other means.

The most effective way (and probably the only effective way) to deal with an individual causing QRM is to NOT engage that individual on the air. Please include the time and date of any incident. Measures are being taken to make audio recordings of repeater activity.

Repeater and Frequency Information

Up-to-date information about both MMRA repeaters and affiliate repeaters can be found at

<http://www.mmra.org/repeaters/index.html>

Band	Location	Freq	PL	Call	Linking	
					To Hub 1	To Hub 2
MMRA Voice Repeaters						
10m	Marlboro	29.680	131.8	W1MRA	PTL	PTL
6m	Marlboro	53.810	71.9	W1BRI	PTL	PTL
2m	Brookline	145.160	—	W1MRA	D-Star	
	Belmont	145.430	67.0	W1MRA	—	—
	Mendon	146.610	146.2	AE1C	FTL	PTL
	Quincy	146.670		W1BRI	PTL	PTL
	Burlington	146.715		KC1US	PTL	PTL
	Weston	146.790		N1BE	PTL	PTL
	Boston	146.820	146.2	K1BOS	FTL	PTL
	Remote receive in Brookline Boston PL = 127.3 (in & out)					
	Marlboro	147.270	146.2	W1MRA	PTL	PTL
1½m	Hopkinton	223.940	103.5	K1KWP	PTL	FTL
	Quincy	224.400		N1KUG	PTL	FTL
	Weston	224.700		N1NOM	PTL	FTL
	Marlboro	224.880		W1MRA	PTL	FTL
70cm	Lowell	442.250	88.5	K1LVF	FTL	PTL: 446.775
	Weston *	442.700		W1MRA	Network Hub 2 (PTL to Hub 1)	
	Burlington	446.775		W1DYJ	FTL	PTL
	Southboro	449.575		W1BRI	PTL	PTL
	Marlboro *	449.925		W1MRA	Network Hub 1	
33cm	Boston *	927.0625	D244	K1RJZ	PTL	PTL
	Marlboro *	927.700		W1MRA	PTL	PTL
MMRA Other Systems						
Marlboro		144.390	none	W1MRA	APRS Digipeater	
???		145.630	146.2	W1MRA	Fox Box	
* Internet	HUB1— 449.925: IRLP node 4133; Echolink					
	HUB2 — 442.700: IRLP node 4136; Connected to 220 Reflector 9124 on Tuesdays					
	927.0625: IRLP node 4977			Normally linked to the NE900 Reflector, 9125. Linked to MMRA via IRLP for the TIAOS net. Normally linked together.		
	927.700: IRLP node 4978					

Notes: FTL = Full Time Linked (or default state)
PTL = Part Time Linked (on schedule or demand)
Note — a repeater can be linked to only one Hub at a time.

Reduced Antenna Height

Off the Air

WRTC 2014 Volunteers Needed

Doug Grant ~ K1DG

The World Radiosport Team Championship (WRTC) will be held in Massachusetts July 12-13, 2014. Like the Boston Marathon, this event draws the "best of the best" from around the world. Fifty-nine two-operator teams will be set up with Field-Day-style stations on 16 properties around the Route 495 corridor, from Pepperell in the north to Plymouth and Taunton in the south. The international teams will compete to see which team can make the most contacts with the most countries and take home the gold medal. This Olympic-style world championship will be widely covered in the local, regional, and national media and provide excellent publicity for amateur radio.

The WRTC2014 organizers need volunteers to help with this once-in-a-lifetime event. The biggest need at the moment is for people to help set up and keep an eye on the stations and provide local transportation for the teams between the headquarters hotel in Westborough and the sites.

MMRA has a long history of successful support of events like this, and WRTC2014 can use your help. Please visit www.wrtc2014.org/volunteer to sign up and tell us how you would like to help in making this exciting event a success.



**Next MMRA Business Meeting:
Wednesday April 16, 7PM
Stratus, Maynard**

Learn more about WRTC2014 at
www.wrtc2014.org.

Public Service Events**David Wolfe — KG1H**

The Ashland Sporting Association in conjunction with Squanto Productions of Quincy is offering a 13.1 mile preparation race for "Boston" to be presented at Marathon Park in Ashland MA on Sunday, March 16.

See <http://www.marathonparkprep.com> for more information.

The MMRA and members from other radio clubs supported the Ashland Half Marathon last year, which was the first time "hams" had supported the Ashland Sporting Association. The race officials recently contacted me,

KG1H, requesting support for this year's event.

Mark Richards, K1MGY, has volunteered to organize this ham activity [the first MMRA public service event this year]. Support has been outstanding.

The Marathon Park Prep, a half-marathon race and a tough, hilly warm-up test for April's Boston Marathon, will begin and end at Marathon Park on Pleasant Street on Sunday, March 16. After opening ceremonies, runners cross the starting line at 10:30 a.m.

MMRA January**Membership Meeting****Volunteering for the 2014 Boston Marathon****Steve Schwarm, W3EVE****Clay Center Observatory in Brookline**

2013—2014 Meetings

18 September — Membership Meeting
Andy Stewart, KB1OIQ, Linux in Your Hamshack
Northborough Public Library

16 October — Business Meeting
Stratus, Maynard

20 November ~ Membership Meeting
Tony Sousa, NN1D — 2300 MHz and Up!
Dedham Public Library

18 December ~ Business Meeting
Stratus, Maynard

15 January ~ Membership Meeting
Steve Schwarm W3EVE — Reflections on the 2013 Boston Marathon
Clay Center, Brookline

12 February ~ Business Meeting
none

19 March ~ Membership Meeting
A Peek into the World of Nanotechnology
Tatnuck Bookseller, Westborough

16 April ~ Business Meeting
Stratus, Maynard

21 May ~ Membership Meeting
Topic TBD
Location TBA

18 June ~ Business Meeting
Stratus, Maynard

16 July ~ Summer Get Together
Location TBA

20 August ~ Business Meeting
Stratus, Maynard

Don't Forget!

Every Tuesday @ 8 PM

Technical, Informational and Other Stuff Net

The MMRA's repeaters are linked Tuesday nights for the TIAOS Net. Join us! This is a good way to keep up with what is happening in the MMRA and ask your ham related questions.

If you would like to try your hand at Net Control contact me at W1DYJ@mmra.org — we have a script you can use.

Current Net Control Operators:

Week 1	WA1JIM	Jimmy Devaire
Week 2	W1DYJ	Larry Banks
Week 3	KQ1Y	Tim Wortley
Week 4	K1KWP	Kevin Paetzold
Week 5	W1DYJ	Larry Banks

To connect using Echolink / IRLP during the Net:

- Echolink Conference *NEW-ENG2*
- IRLP node 9127

MMRA Leaders

Officers

President	Bob DeMattia	K1IW
Vice President	Steve Telsey	N1BDA
Secretary	John McGovern	W1JMC
Treasurer	Kevin Paetzold	K1KWP
Clerk	Bob Evans	N1BE
Technical Officer	Bryan Cerqua	W1BRI

Board of Directors

Director »2015	Steve Schwarm	W3EVE
Director »2015	Roger Coulson	WA1NVC
Director »2014	Clark Conti	N1NVK
Director »2014	Mike Neilsen	W1MPN

Repeater Trustees, Appointed

Boston 927.0625	Rick Zach	K1RJZ
Boston 146.820	John Mullaney	K1BOS
Brookline 146.820 Rcvr	Bob Phinney	K5TEC
Burlington 146.715	Bruce Pigott	KC1US
Burlington 446.775	Larry Banks	W1DYJ
Hopkinton 223.940	Kevin Paetzold	K1KWP
Lowell 442.250	Vince De La Flor	K1LVF
Marlboro 53.810; Quincy 146.670; Southboro 449.575	Bryan Cerqua	W1BRI
Marlboro 144.390, 147.270, 224.880, 449.925, 927.700		
Belmont 145.430; Weston 442.700 — all as W1MRA		
	Bill Northup	N1QPR
Mendon 146.610	Jim Podsiadlo	AE1C
Weston 146.790	Bob Evans	N1BE
Weston 224.700	Eddie Mulhern	N1NOM

Appointed, non-Voting

Newsletter Editor	Larry Banks	W1DYJ
Emergency Coord.	Kevin Paetzold	K1KWP
Public Service Coord.	David Wolfe	KG1H
VEC Liaison	Bill Wade	K1IJ
Net Manager	Larry Banks	W1DYJ
Web Page Editor	Bob DeMattia	K1IW

Previous issues of the MMRA Newsletter are available at:

www.mmra.org → [Newsletter Archive](#) (on the left)

MMRA VE Sessions

3rd Saturday of each Month

EXCEPT: September session is on the 14th

November session is on the 9th

9 AM at the Marlboro Public Library

Contact: Bill Wade, K1IJ 781-891-9079

Evenings 6 - 10 PM Weekends 8 AM to 10 PM.

Accredited by the ARRL VEC

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A Peek Into the World of Nanotechnology

Paul Anzalone, N1PA

Location: Tatnuck Bookseller, Westborough

Calendar of Ham Radio Flea Markets

See this web site for more information: <http://mit.edu/w1gsl/Public/ne-fleas>

15 Mar	Dayville CT	ECARA	StJosephCh
15 Mar	N Conway NH	WMARC	CommCtr
16 Mar	Southington CT	SARA	HS
23 Mar	Henniker NH	CVRC	CommSch
28,29 Mar	Lewiston ME	AARC	Conv Ramada
6 Apr	Framingham MA	FARA	Keefe Tech
12,13 Apr	Wakefield MA	Photographica	AmericalCtr
12 Apr	Windsor CT	VR+C	Mus
<u>13 Apr</u>	<u>Manchester CT</u>	<u>NEWS V/UHFConf</u>	<u>Baymount</u>
19 Apr	S.Portland ME	PAWA	AmLegion
20 Apr	Cambridge MA	FLEA	MIT
26 Apr	Gales Ferry CT	RANSON	Auction

26 Apr	Brookline NH	NEARC	Antique
27 Apr	Middletown NY	OCARA	CommCtr
<u>2,3 May</u>	<u>Deerfield NH</u>	<u>NEARfest XV</u>	
10 May	E Greenbush NY	EGARA	FireCo
18 May	Cambridge MA	FLEA	MIT
31 May	Goshen CT	SBARC	FG
1 Jun	Bethpage NY	LIMARC	Briarcliffe
7 Jun	Hermon ME	PSARA	HS
7 Jun	Windsor CT	VR+C	Mus
8 Jun	Queens NY	HoSARC	
15 Jun	Cambridge MA	FLEA	MIT
21 Jun	Newington CT	NARL	StMarySch
<u>18,19 Jul</u>	<u>Hartford CT</u>	<u>ARRL Nat Conv</u>	<u>100th Anv.</u>

THE MINUTEMAN REPEATER ASSOCIATION

MMRA
P.O. Box 669
Stow, MA. 01775-0669

Email: contact@mmra.org



WE'RE ON THE WEB
[HTTP://WWW.MMRA.ORG/](http://www.mmra.org/)